

Akrur Behera, Kálmán Liptai, Gopal Krishna Panda, and László Szalay
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Abstract

The Diophantine equation $F_1^k + F_2^k + \cdots + F_{n-1}^k = F_{n+1}^l + F_{n+2}^l + \cdots + F_{n+r}^l$ in positive integers n, r, k, l with $n \geq 2$ is studied where F_n is the n th term of the Fibonacci sequence.